

**869-2 CONSTRUCTION METHODS**

Where required by the traffic phasing, at locations shown in the plans, or where directed, relap guardrail to conform to the required traffic pattern. Complete all required relapping of guardrail and have it inspected before shifting traffic into a new traffic pattern. All guardrail shall be lapped in the direction of traffic before placing traffic next to the guardrail.

**869-3 MEASUREMENT AND PAYMENT**

*Relapping Guardrail* will be measured and paid in linear feet of guardrail that has been satisfactorily relapped and accepted. Measurement will be made from center to center of the outermost post in the length of guardrail being measured. Such price includes, but is not limited to, providing all necessary labor, tools, equipment and materials necessary to acceptably relap the guardrail.

Payment will be made under:

**Pay Item**

Relapping Guardrail

**Pay Unit**

Linear Foot

## SECTION 876 RIP RAP

**876-1 DESCRIPTION**

Furnish and place rip rap and, if necessary, filtration geotextiles in accordance with the contract and as directed.

**876-2 MATERIALS**

Refer to Division 10.

**Item**

Geotextile for Drainage, Type 2  
Plain Rip Rap

**Section**

1056  
1042

Provide Type 2 geotextile for filtration geotextiles and plain rip rap classes in accordance with the contract.

**876-3 PLAIN RIP RAP**

Grade locations for rip rap as shown in the plans. Use filtration geotextiles under rip rap when shown in the plans and as directed. Do not leave geotextiles exposed for more than 7 days before covering with rip rap. Place filtration geotextiles on surfaces free of obstructions, debris and soft pockets.

Overlap adjacent geotextiles at least 18" in the downhill and downstream direction to prevent flow from lifting the edge of the top geotextile. Place filtration geotextiles in slight tension free of kinks, folds, wrinkles or creases. Use wire staples or anchor pins as needed to hold geotextiles in place until covered. Do not displace or damage filtration geotextiles while placing rip rap. Replace any damaged geotextiles to the satisfaction of the Engineer.

For rip rap at pipe outlets, place rip rap immediately after installing pipes. When rip rap is required for channel changes and drainage ditches, place rip rap before diverting water into channels and ditches.

Place rip rap such that the smaller stones are uniformly distributed throughout rip rap. Install rip rap with mechanical methods and if necessary, by hand to form a well-graded, dense and neat layer of rip rap.

## Section 876

### 876-4 MEASUREMENT AND PAYMENT

*Rip Rap, Class \_\_\_\_* will be measured and paid in tons. Plain rip rap will be measured by weighing rip rap in trucks in accordance with 106-7.

*Geotextile for Drainage* will be measured and paid in square yards. Filtration geotextiles will be measured along the ground surface as the square yards of exposed geotextiles before placing rip rap. No measurement will be made for overlapping geotextiles.

The contract unit prices for *Rip Rap, Class \_\_\_\_* and *Geotextile for Drainage* will be full compensation for providing, transporting and placing rip rap, filtration geotextiles, wire staples and anchor pins.

Payment will be made under:

#### Pay Item

Rip Rap, Class \_\_\_\_

Geotextile for Drainage

#### Pay Unit

Ton

Square Yard